

# GAPP

## FY 2004 Information Sheet

GAPP is jointly supported by NOAA and NASA and is expected to continue until 2007. Initiatives are solicited which have a geographical focus on the western USA, the Mississippi River Basin, or the entire U.S., and address the following GAPP FY2004 priorities:

**Predictability in Land Surface Processes:** GAPP seeks to better understand the contributions of land surface processes to the sources and limits of predictability in the water cycle. Continuing efforts will focus on the roles of vegetation, snow/ice and frozen soil in coupled and uncoupled models, the seasonal cycle of vegetation, soil moisture and snow/ice, soil moisture initialization and the effects of topography on convective precipitation and horizontal flow within catchments. Land memory process studies and modeling studies utilizing satellite data will also be encouraged.

The anticipated availability of the Regional Reanalysis in the autumn of 2003 will provide new opportunities to study the effects of land processes on seasonal to interannual time scales. Proposals linking the Regional Reanalysis products to studies of vegetation, soil moisture and snow and their roles in the predictability of precipitation over the GAPP study area are encouraged. The use of the Regional Reanalysis in regional water and energy budget studies, quantification of moisture sources and sinks, and GAPP relevant phenomenological studies is also of interest.

**Hydrometeorology of Orographic Systems:** Studies linking the meteorology and hydrology of the Western Cordillera are encouraged. These studies could involve process studies or modeling studies on seasonal time scales with high spatial resolution. Phenomena of significant interest include precipitation, snow pack formation and melt, and runoff generation. The contributions of satellite data to resolving mountain processes will also be considered.

**Predictability of North American Monsoon:** A joint PACS/GAPP call for proposals on North American Warm Season Precipitation is issued separately. Please see PACS or GAPP web site for detailed information. Proposals will also be considered that deal with other GAPP themes including water resource applications and CEOP/transferability studies.